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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,315	09/28/2006	Thomas Peter Sabroe	3893-0230PUS2	8221
2292 7590 03/04/2011 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHARGEL VA 22040 0747			EXAMINER	
			QAZI, SABIHA NAIM	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1628	
			NOTIFICATION DATE	DELIVERY MODE
			03/04/2011	ELECTRONIC

#### Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
	10/549,315	SABROE ET AL.
Office Action Summary	Examiner	Art Unit
	Sabiha Qazi	1628
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be the will apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
<ol> <li>Responsive to communication(s) filed on 16 D</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloward closed in accordance with the practice under E</li> </ol>	action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4)	re withdrawn from consideration	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date

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#### **Final Office Action**

Claims 30-34, 36-44, 47-52, 54-57 are pending. No claim is allowed at this time. All the pre-amendments are entered.

## Summary of this Office Action

- 1. Information Disclosure Statement
- 2. Copending Applications
- 3. Specification
- 4. 35 USC § 103(a) Rejection
- 5. Response to Remarks
- 6. Conclusion
- 7. Communication

# **Information Disclosure Statement**

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

#### **Copending Applications**

Applicants must bring to the attention of the examiner, or other Office official involved with the examination of a particular application, information within their knowledge as to other copending United States applications, which are "material to patentability" of the application in question. See MPEP 2001.06(b). See Dayco Products Inc. v. Total Containment Inc., 66 USPQ2d 1801 (CA FC 2003).

## **Specification**

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## 35 USC § 103(a) Obviousness Rejection

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically

disclosed or described as set forth in section 102 of this title, if the

differences between the subject matter sought to be patented and the prior

art are such that the subject matter as a whole would have been obvious at

the time the invention was made to a person having ordinary skill in the art

to which said subject matter pertains. Patentability shall not be negatived

by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at

issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating

obviousness or nonobviousness.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 30-34, 36-43, 48-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin Calverley (Tetrahedron, Vol. 43, No. 20, pp. 4609-4619 The reference teaches a method for preparing vitamin D (1987), IDS ref). compounds which embraces presently claimed invention. The reference teaches SO2 adducts of vitamin D compounds. See compounds on page 4611. See the preparation scheme of calcipotriol on page 4612 and 4613 and 4614. See the entire document. See the abstract.2<sup>nd</sup> and 3rd para on page 4610.

It would have been obvious to one skilled in the art at the time the invention was filed to prepare addition calcipotriol which is a marketed drug by using a

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sulfone adduct of vitamin D because prior art teaches the process of making vitamin D compounds by this scheme. Process of making vitamin D compounds by using sulfone adducts would have been obvious. No unexpected reaction has been noted. Applicant may consider explaining the criticality of the invention.

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In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

#### Response to Remarks

Applicant's response filed on 12/16/10 is hereby acknowledged. Applicant's arguments were fully considered but are not found persuasive.

## **Unity of Invention Requirement**

Applicant again argues that unity of invention requirement should be withdrawn. The basis of the arguments is that the special technical feature is same. Examiner respectfully disagrees again that all the claims should be examined. It will be a burden on the examiner because the groups are different and search for one group will not be the same as for other group. Similarly one reference may not by used to reject all the claims. For example claim 44 and its dependent claims are drawn to a method for making vitamin D compounds of formula III which is not the same as method of reducing the compounds of formula III.

It will be an undue burden on the examiner to examine all the invention as has been claimed. On Applicant request and arguments were found persuasive therefore, claims 48-50 were joined with elected group I. Applicants had elected group I with traverse.

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

## Issues under 35 USC 103 (a)

Appellant argue that prior art does not teach the advantages of the present invention. The data disclosed for example 16 on page 32 of the specification shows the ratio of compounds Va and Vb with very specific chiral auxiliary and reducing agent at a very specific temperature i.e. 15-20C. Furthermore, the

amount a of auxiliary are different equivalents. The ratio of the last entry in table (page 33) is not very different i.e. 57:43. The data needs some clarification for any unexpected enrichment by the claimed process.

Calverley teaches the reduction of sulfone adducts. The reference need not to teach exact process. It is the teaching which matters. In absence of any criticality and/or unexpected results presently claimed invention is considered obvious.

#### **Conclusion**

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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#### Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sabiha Qazi whose telephone number is (571) 272-0622. The examiner can normally be reached on any business day except Wednesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fetterolf Brandon can be reached on (571) 272-2919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to

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the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sabiha Qazi/

Primary Examiner, Art Unit 1612